MEMORANDUM FOR: All NWS Regional Headquarters, Regional

Maintenance Specialists, Electronic Systems

Analysts, and Electronics Technicians [Engineering Handbook (EHB)-13, Series II

distribution]

FROM: W/OPS1 John McNulty Mak & Pase

SUBJECT: Transmittal Memorandum for EHB-13 Series II,

Issuance 02-04

1. <u>Material Transmitted:</u>

Engineering Handbook No. 13 Series II, Advanced Weather Interactive Processing System (AWIPS), section 3.1, AWIPS Software Installation Instruction Note 26, Maintenance Release 5.1.2.2

2. Summary:

AWIPS Software Installation Instruction Note 26, provides instructions to download and install maintenance release 5.1.2.2.

3. Effect on Other Instructions:

File this note in EHB-13, Series II, section 3.1. Discard all previous software installation instructions in section 3.1.



ENGINEERING HANDBOOK 13

SERIES II

SECTION 3.1

AWIPS SOFTWARE INSTALLATION INSTRUCTION NOTE 26

(for Electronic Systems Analysts)

Maintenance, Logistics, & Acquisition Division

W/OPS1: FJZ

SUBJECT: Maintenance Release 5.1.2.2.

PURPOSE: To provide installation instructions for three patches.

PATCH NUMBER : P512_SEC_A100180

AUTHORIZATION: The authority for this modification note is Request for Change RC180

AFFECTED SITES: All AWIPS Release 5.1.2 sites must install this maintenance release.

VERIFICATION STATEMENT

: The Release 5.1.2.2 installation procedures were tested and verified at Amarillo, TX (AMA), Southern Region Headquarters, Ft. Worth, TX (EHU),

Mobile, AL (MOB), and Eastern Region Headquarters, Bohemia, NY

(VUY).

PREINSTALLATION: •

• R5.1.2.1 must be installed.

REQUIREMENTS

Logouts of all D2D sessions and the Text Workstations

TIME REQUIRED: Approximately 25 minutes

SECURITY LEVEL: root

TECHNICAL SUPPORT

For questions or problems regarding these installation instructions or installing this Release, please contact the NCF at 301-713-9344.

GENERAL

The summary of R5.1.2.2 fixes are as follows:

- SCAN/FFMP update for fxaWish hang and bad FFMP rates (DR #9259, 9906, 9907 -P512_MDL_A100177)
- WWA patch #1 (DR #9297, 9709, 9716, 9718, 9747 P512 MDL A1001
- Fix a performance problem with loading radar mosaics (DR #9776 P512_FSL_A100179)
- Update for pathcast generated from LocalCitiesInfo.txt (DR #9707 P512 FSL A100178)
- Update RiverPro formatter with CRS header changes for VIP (DR #9986 -P512_OHD_A100184)
- Update SSHP to update maximum forecast stage value (DR #9987 P512_OHD_A100185)
- Fix mcUpdtstat to perform database tuning on hmdb (DR #10045)
- IFPS patch #1 (DR #9668, 9870, 9871 P512_MDL_A100186)
- Correct problem causing "ifpServer" to stop handling requests (Linux) (DR #9313 -P512_FSL_A100174)
- Linux workstation patch #1 (DR #9911, 9976 P512 SECA100181)

R5.1.2.2 Detailed Description

- SCAN/FFMP update for fxaWish hang and bad FFMP rates (DR #9259, 9906, 9907 -P512 MDL A100177) repairs the following:
 - S D2D freeze when fxaWish reads a file written by the FFMPprocessor.
 - S Incorrect order of the basin and county rates in the FFMP Basin Table when old data time is entered.
 - S Incorrect accumulation county data in the Basin Table when old data time is entered.
- WWA patch #1 (DR #9297, 9709, 9716, 9718, 9747 P512_MDL_A100176) repairs the following:
 - S Standardize Hazard Menu (DR #9297). OSUs national products list is now every WFO's hazard menu.
 - S Tone alerted NWR messages were not triggered by NWR (DR #9709). Using wwa_nwr_twrs list now triggers tone alerts and generates products.
 - S Provide correct text/PIL for backup sites (DR #9716). Corrects the PIL sent to the wwaServer and product text from the the WWA composer.
 - S Provide correct text/PIL for current site (DR #9718). Corrects PIL and missing text when selecting local site from the WWA composer's site menu.
 - S Update WWA setup GUI to prevent characteristic fields from being altered (DR #9747). Lockout field from making changes to Hazard type, generic name, & specific product names.

NOTE: These changes require a post-installation localization (see Appendix A, Note to AWIPS Focal Point).

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- Repair radar mosaic loading performance problem (DR #9776 P512_FSL_A100179).
- Update pathcast generated from LocalCitiesInfo.txt (DR #9707 P512 FSL A100178).
 - **S** Repairs localization problem when using LocalCitiesInfo.txt to add cities for Warngen pathcasts.

NOTE: These changes require a post-installation localization (see Appendix A, Note to AWIPS Focal Point).

- Update RiverPro formatter with CRS header changes for VIP (DR #9986 -P512_OHD_A100184)
 - S To support "C" character in the header to activate NWR Voice Improvement Program.
 - S To include the CRS header changes needed for the VIP.
- Update SSHP to update maximum forecast stage value (DR #9987 P512_OHD_A100185)
 - S Now enables RiverStatus table information update when a forecast stage timeseries is saved to the database.
 - S SSHP now updates maximum forecast stage value.
- Repairs mcUpdtstat to perform database tuning on hmdb (DR #10045)
 - S Incorporate table-specific performance tuning for the 'hmdb' database.
- IFPS PAtch #1 (DR #9668, 9870, 9871 P512_MDL_A100186)
 - S IUR now indicates zones to be updated and preserves text edits in the updated forecast.
 - S IGR now prompts multi-users when exiting.
 - S Snow amounts are now averaged correctly when unloaded.
- Correct problem causing 'ifpServer' to stop handling requests (Linux) (DR #9313 -P512_FSL_A100174)
- Linux Workstation Patch #1 (DR #9911, 9976 P512 SECA100181)
 - **S** Install screensaver SLO fix
 - S Install new matrox video drivers for Xfree86 4.0.3 on RedHat 7.1 (DR #9976)
 - S Install RedHat security patches for rlogin, rexec, rsh and telnet (DR #9911)
 - S Install new flush infs workaround for SLOs
 - -- add script to flush the NFS cache
 - -- add entry to the 'root' user cron to flush NFS cache hourly
 - S Check that the NFS read/write packet sizes are correct for all NFS mounts listed in /etc/fstab
 - -- Verify 'rsize=8192' and 'wsize=8192' settings on NFS filesystems /home, /data/fxa, /data/local
 - -- Verify 'noac' setting on NFS filesystem /data/fxa_local

PROCEDURE

A. Pre-installation for NDFD/MDL Alpha Software Sites

Go to http://isl715.nws.noaa.gov/tdl/icwf/Alpha521/ for 5.1.2.1 and 5.1.2.2 pre-installation and post-installation instructions.

B. Maintenance Release download and ds1 Installation Procedure

NOTE: PRC has pushed the "R5.1.2.2.tar.Z" file to the "/data/local/R5.1.2.2" directory at each AWIPS site.

1. At a workstation, open a telnet window and log into ds1 as **root** by typing:

2. Change to the /data/local/R5.1.2.2 directory by typing:

3. Start the output script log by typing:

4. Uncompress the release bundle by typing:

5. Run installation script by typing:

6. Stop the output script by typing:

This completes the maintenance release download and installation procedure.

C. Post Installation Configuration Checkout

Check if all files were removed/copied correctly. Check for "cannot write: Text file busy". If present, the file must be manually removed.

grep busy R5.1.2.2.out

This completes the post installation configuration checkout.

REPORTING MODIFICATION

Report the completed modification on a WS Form A-26, Maintenance Record, according to the instructions in Engineering Handbook 4 (EHB-4), Engineering Management Reporting System (EMRS), Part 2, and Appendix I. A sample WS Form A-26 is attached. As an additional guide, use the information in the table below.

Block #	Block Type	Information						
5	Description	Upgrade AWIPS Software to R5.1.2.1 I.A.W. AWIPS Software Installation Instruction Note 25						
7	Equipment Code	AWIPS						
8	Serial Number	001						
15	Comments	Upgraded AWIPS System Software to R5.1.2.1 I.A.W. AWIPS Software Installation Instruction Note 25						
17a	Mod. No.	S25						

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Attachment A - Note to AWIPS Focal Point Attachment B - WS Form A-26 Sample

Attachment A Note to AWIPS Focal Point

NOTE: Steps 1 and 2 require a workstation localization. Perform localization one workstation at a time and after both modifications are complete.

1. The patch removes the WWA database and replaces the MDL supported database. Sites must reconfigure site unique files. Fifteen WarnGen template files were changed in order for the AUX_INFO section to match new entries in the uploaded characteristics table. The new template files will be uploaded into the /awips/fxa/data/localization/nationalData directory. The changed template files are listed below and must be merged into custom templates, if the option is used.

wwa_ffw.preWWA	wwa_specmarine.preWWA						
wwa_blosnow_adv.preWWA	wwa_flflood_sta.preWWA						
wwa_flood_wrn.preWWA	wwa_sws.preWWA						
wwa_cst_fld_sta.preWWA	wwa_flflood_wat.preWWA						
wwa_hls.preWWA	wwa_urbssflood_adv.preWWA						
wwa_cst_fld_wat.preWWA	wwa_flood_wat.preWWA						
wwa_shortterm_fcst.preWWA	wwa_marine_ugc.preTemplate						
wwa_cst_fld_wrn.preWWA	wwa_svrwx_sta.preWWA						
wwa_snoblsno_adv.preWWA	wwa_svrwx_sta_county.pre WWA						

a. The changed template files will be listed as soon as the new WWA web page is developed. Sites must merge WarnGen AUX_INFO template file changes as described in step b below.

NOTE: Create a custom WarnGen template file before performing the AUX_INFO changes.

b. Sites using a custom file configuration, must merge the AUX_INFO sections, from the uploaded template files, with the associated custom template files from the custom file directory. Below is an example of the AUX_INFO field of a tornado WarnGen template file:

```
< AUX_INFO | wx_hazard=Tornado | issue_prod=$$cccValue!TOR$$xxxValue!
>
```

- c. To capture the AUX_INFO changes, format the new WWA, and format the new WWA template files, it will be necessary to run a "-wwa" localization as shown in step 2a.
- 2. Sites can now locolize LocalCitiesInfo.txt to add cities for Warngen pathcasts.

 Sites should undo any workarounds that may have been implemented. The most common workaround was to add the desired local cities to /awips/fxa/data/CitiesInfo.txt file. These entries should now be removed and the site should reinstate the LocalCitiesInfo.txt file into /data/fxa/customFiles.
 - a. Run localization for each workstation separately by typing:

```
su - fxa
cd /fxa/data/localization/scripts
./mainScript.csh -wwa -station
```

b. After localization, confirm the workstation(s) operates properly with the new WWA configuration. Also verify warngen uses the local cities in the pathcast.

Attachment B

,	WS FORM A -26 (4/94)		WS FORM A -26 (4/94) NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL WEATHER SERVICE ENGINEERING MANAGEMENT REPORTING SYSTEM MAINTENANCE RECORD U.S. DEPARTMENT OF COMMERCE Document Number C 49978														
General Information			1. Open Date Time 2 3/ 01/02 0900			2. Initials JM					(check one) O Low Not Applicable			4. Close Date 3 / 01 / 02		Time 1000	
5. Description Install AWIPS maintenance release 5.1.2.2 (patch # P512_SEC_A100180) I.A.W. AWIPS Software Installation Instruction Note 26																	
Equipment Information			6. Station ID PHI				8. Serial Number 001			9. TM M			10. AT M			11. How Mal. 999	
OF	1 2. EQUIPMENT OPERATIONAL STATUS TIMES a. Fully Operational b. Logistics Delay Partly Operational c. All Other d. Logistics Delay Not Operational e. All Other d. Logistics Delay Not Operational c. All Other d. Logistics Delay Not Operational e. All Other d. Logistics Delay Not Operational c. All Other d. Logistics Delay Not Operational e. All Other d. Logistics Delay Not Operational c. All Other d. Logistics Delay Not Operational e. All Other d. Logistics Delay Not Operational c. All Other d. Logistics Delay Not Operational e. All Other d. Logistics								. All Other								
13. Parts Failure Information 14. Work Load Information																	
Block #	a.	ASN			ь.	NSN			TM	d. AT	e. How Mal.	f. Qty.	g. Maint Hrs.		Туре	Staff Hrs.	
1		4													a. Routine		
2															b. Non-routine		
3															c. Travel		
4															d. Misc.	1:00	
5															e. Overtime		
Miscellaneous		15. Maintenance Comments Installed maintenance release 5.1.2.2 (patch number											16. Initials				
	Informatio	o n	P512_SEC_A100180 I.A.W. AWIPS Software Note 26.														
17. SPECIAL PURPOSE			b. Mod./Act./D 3/01 /					d.				е.					
18. CONFIGURATION MGMT. REPORTING (use as directed)			ASN	Vendor Part Number (New Part) Serial Number (Old Part)				S	Serial Number (New Part)								